COLSF VI Colbert 8.2

ABC LABORATORIES, INC. EAST 4922 UNION AVENUE SPOKANE, WA 99219 509-534-0161

OCT 13 1890

REPORT TO: Spokane County Dept. of Utilities

N. 811 Jefferson

Spokane, WA 99210

LAB NO: 33964-90

DATE: 9-17-90

SAMPLE DATE: September

ATTN:

Bruce Austin

DESCRIPTION: Perform Volatile Organic Scan on 20 submitted samples from the wells in the Colbert Landfill area. Analyses performed by methods outlined in proposal of December 8th, 1988.

DETECTION LIMITS: 1 part per billion

ND: Not Detected

This document contains six pages.

Respectfully Submitted, ABC LABORATORIES, INC.

W.E. Burkhardt

Manager

Spokane County Dept. of Utilities	3					
Lab NO. 33964-90	(b) (6)	D.44	(b) (6)			
NAME	(-) (-)	Batty				
WELL NO.	1573R-2	Springs 1073C-1	15770-17	02775-2	16774-2	02775 1
DATE:	9-13-90	9-14-90	1573C-17 9-13-90	0273F-2 9-13-90	1673A-2 9-13-90	0273E-1
DATE.	9-13-90	7-14-70	3-13-90	9-13-90	9-13-90	9-14-90
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	NĎ	ND	43
Trichloroethylene	ND	ND	ND	ND	ND	NĎ
1,1,1-Trichioroethane	ND	ND	ND	ND	ND	412
Tetrachloroethylene	NĎ	ND	ND	ND	NĎ	NĎ
Methylene Chloride	ND	ND	ND	ND	ND	ND
1 - Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene Di Bromide	NĎ	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
0-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4~Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane Trans 1,2-Dichloroethane	ND ND	ND ND	ND ND	ND ND	ND ND	ND
	ND			ND		ND
Trans 1,2-Dichloroethylene 1,2-Dichloropropane	ND	ND ND	ND ND	ND	ND	ND ND
Cis 1,3-Dichloropropylene	ND	ND ND	ND ND	ND	ND	ND ·
Trans 1,3-Dichloropropylene	ND	ND	ND ND	ND ND	ND	ND ND
1,1,2,2-Tetrachloroethane	ND	ND ND	ND ND	ND ND	ND ND	ND ND
1,1,2,-richloroethane	ND	NĎ	ND ND	ND ND	ND ND	ND ND
2-Chloroethylvinyl Ether	ND	ND	ND ND	ND	ND ND	ND
Z-Cinol occury: Villy: Ether	ΝD	NU	ND	NU	NU	NU

Spokane County Dept. of Utilitie	18					
Lab NO. 33964-90 NAME	(b) (6)					
WELL NO.	0273E-1	1273M-1	15738-5	1573B-5	1473D-2	02730-5
	Confirming			Confirming		
DATE:	9-17-90	9-13-90	9-13-90	9-17-90	9-14-90	9-13-90
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichlöroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	37	ND	ND	ND	ND	ND
Trichloroothylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	379	ND	3	2	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	NĐ	ND	ND	ND
1 - Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene DiBromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xylene	ND	ND	ND	ND	ND	ND
O-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone Bromodichloromethane	ND ND	ND	ND ND	ND	ND	ND
Bromoform	ND	ND ND	NĎ ND	ND ND	ND	ND ND
Carbon Tetrachloride	ND	ND	ND	ND ND	ND ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropulene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NĎ	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

Spokane County Dept. of Utilities						
Lab NO. 33964-90		(b) (6)				
NAME	North	(-) (-)				
	Meadows					
WELL NO.	1073J-2	1573C-11	1573E-2	1573C-2	1573Q-1	1573B-1
DATE:	9-13-90	9-13-90	9-13-90	9-14-90	9-13-90	9-17-90
Chloreform						
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	3
1 , 1 - Dichloroethylene Trichloroethylene	ND	ND	ND	ND	ND	2
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND ND	ND ND	ND ND	ND	ND	58
Methylene Chloride	ND	ND	ND	ND	ND	ND
1 - Pentene	ND	ND	ND	nd Nd	ND	ND
Cyclopentane	ND	ND	ND	ND	ND ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	NĎ	ND
Ethylene Di Bromide	ND	ND	ND	ND	ND	ND ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND ND
M-xylene	ND	ND	ND	ND	ND	ND
0-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	NĎ	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	NĎ	ND	ND	ND	ND	ND
P-cymene	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichlorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND ND	NĎ	ND	ND	ND	ND
Dibromochloromethane	ND	ND ND	ND ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND ND	ND	ND
Trans 1,2-Dichloroethane	NĎ	ND	ND	ND ND	ND ND	ND
Trans 1,2-Dichloroethylene	ND	ND	NĎ	ND	ND	ND
1,2-Dichloropropane	ND	NĎ	ND	ND	ND	ND ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

Spokane County Dept. of Utilitie	9					
Lab NO. 33964-90	(b) (6)					T1
NAME						Travel Blank
WELL NO.	1573B-1 Confirming	1473C-3	10730-4	1073L-4	1573C-8	DIGIIK
DATE:	9-17-90	9-13-90	9-13-90	9-13-90	9-13-90	9-17-90
Chloroform	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	2	ND	ND	ND	ND	ND
1,1-Dichloroethylene	1 ND	ND ND	ND ND	ND ND	ND	ND ND
Trichloroethylene 1,1,1-Trichloroethane	49	ND	ND	ND	ND ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
1 - Pentene	ND	ND	ND	ND	ND	ND
Cyclopentane	ND	ND	ND	ND	ND	ND
Trans 2-Hexene	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
Ethylene Di Bromide	ND	ND	ND	ND	ND	ND
Ethyl Benzene	ND	ND	ND	ND	ND	ND
M-xijene	ND	ND	ND	ND	ND	ND
Q-xylene	ND	ND	ND	ND	ND	ND
P-xylene	ND	ND	ND	ND	ND	ND
Cumene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl Benzene	ND ND	ND ND	ND ND	ND ND	ND	ND
P-cymene Chlerobarrana	ND ND	ND	ND ND	ND	ND ND	ND ND
Chlorobenzene M-dichlorobenzene	ND	ND	ND	ND	ND	ND
O-dichlorobenzene	ND	ND	ND	ND	ND	ND
P-dichiorobenzene	ND	ND	ND	ND	ND	ND
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ND	ND	ND	ND	ND	ND
Bromoform	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Cis 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND	ND	ND	ND

Spokane County Dept. of Utilitie Lab NO. 33964-90	8		
NAME	Travel	Travel	Travel
	Blank	Blank	Blank
DATE	#1	#3	#4
DATE:	9-17-90	9-17-90	9-17-90
Chloroform	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND
Trichloroethylene	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND
Tetrachloroethylene	ND	ND	ND
Methylene Chloride	ND	ND	ND
1 - Pentene	ND	ND	ND
Cyclopentane	ND	ND	ND
Trans 2-Hexene	ND	ND	ND
Benzene	ND	ND	ND
Toluene	ND	ND	ND
Ethylene DiBromide	ND	ND	ND
Ethyl Benzene	ND	ND	ND
M-xylene	ND	ND	ND
0-xylene	ND	NĎ	ND
P-xylene Cumene	ND	ND	ND
1,2,4-Trimethyl Benzene	ND	ND	ND
P-cymene	ND ND	ND	ND
Chlorobenzene	ND	ND ND	ND ND
M-dichlorobenzene	ND	ND	ND ND
O-dichlorobenzene	ND	ND	
P-dichlorobenzene	ND	NĎ	NĎ ND
Methyl Ethyl Ketone	ND	ND	ND
Acetone	ND	ND	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	NĎ	ND
Carbon Tetrachloride	ND	ND	ND
Dibromochloromethane	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
Trans 1,2-Dichloroethane	ND	ND	ND
Trans 1,2-Dichloroethylene	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND
Cis 1,3-Dichloropropulene	ND	ND	ND
Trans 1,3-Dichloropropylene	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
1,1,2,-richloroethane	ND	ND	ND
2-Chloroethylvinyl Ether	ND	ND	ND
- ·			

HAXIMAN ALLOHABLE CONTANINANT CONCENTRATIONS





NOTE

Health Protection Levels*

* Health Protection Levels are not to be exceeded, during operational life of remedial action in effluents from groundwater treatment systems. Persanent reduction of contaminant concentrations below these levels throughout the site will indicate completion of the remedial action.

FOR IDOMPTION OF VIOLE SEE VILL DVMPN/MORE LEGGE	Contaminant Parts per billion (ug/1) Basis	
157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 157-56 15	Hethylene Chloride (HC) 2.5 10 -5 car 2273/ DEEP	ETRACL CHLOROFORM NO N
19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 19754 1975	DEEP 99./17/90 #33,864-90 MELL # 111-TCA 11-DCE 11-DCA TCE (D) 10731-4 MD	TETRAC: CHLOROFORM ND MD ND
24.3 (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.5) (57.	1873C- 2 NO	ND NO ND
1575M	15738-2 ND NO	NO MO NO NO
	775d 2575d 2575d 2575d	